

[illegible]

Title: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION

Applicant(s): Fred E. Regnier et al.	Serial No.: Unassigned	Filed: Herewith
Docket: 290.0001 0101	Express Mail No.: EL 776904892 IIS	Sheet 1 of 12

The separation is based on the interaction of biotin with avidin

**coupling arm with**

Peptides that contain a specific functional group are derivatized and selected. Specificity comes from the derivatization reaction.



## derivitizing agent

isotopic label

affinity  
selection

Peptide selection can be achieved in a wide variety of ways. Specificity comes from the separation of the peptides

# AN UNCOUPLED STRATEGY

Fig. 1

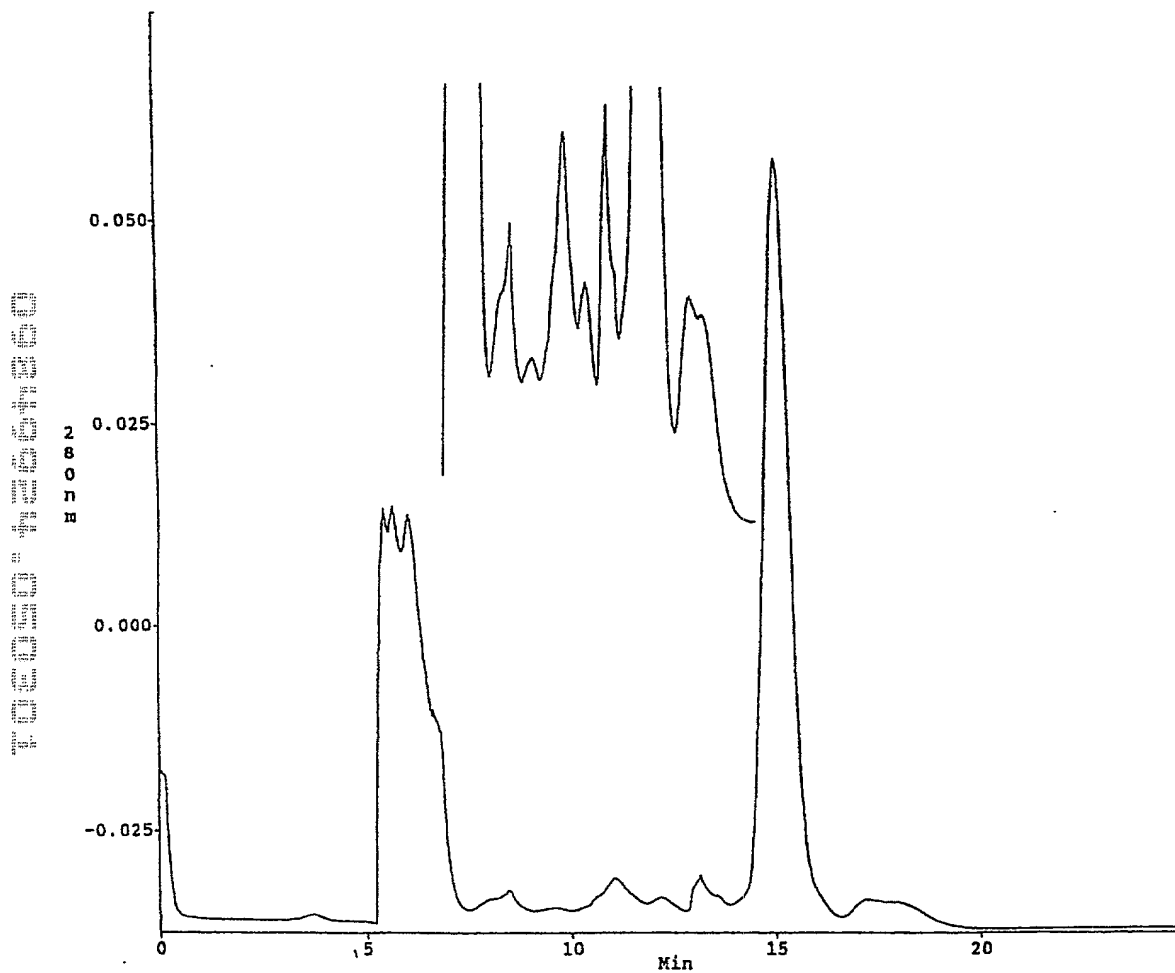


Fig. 2

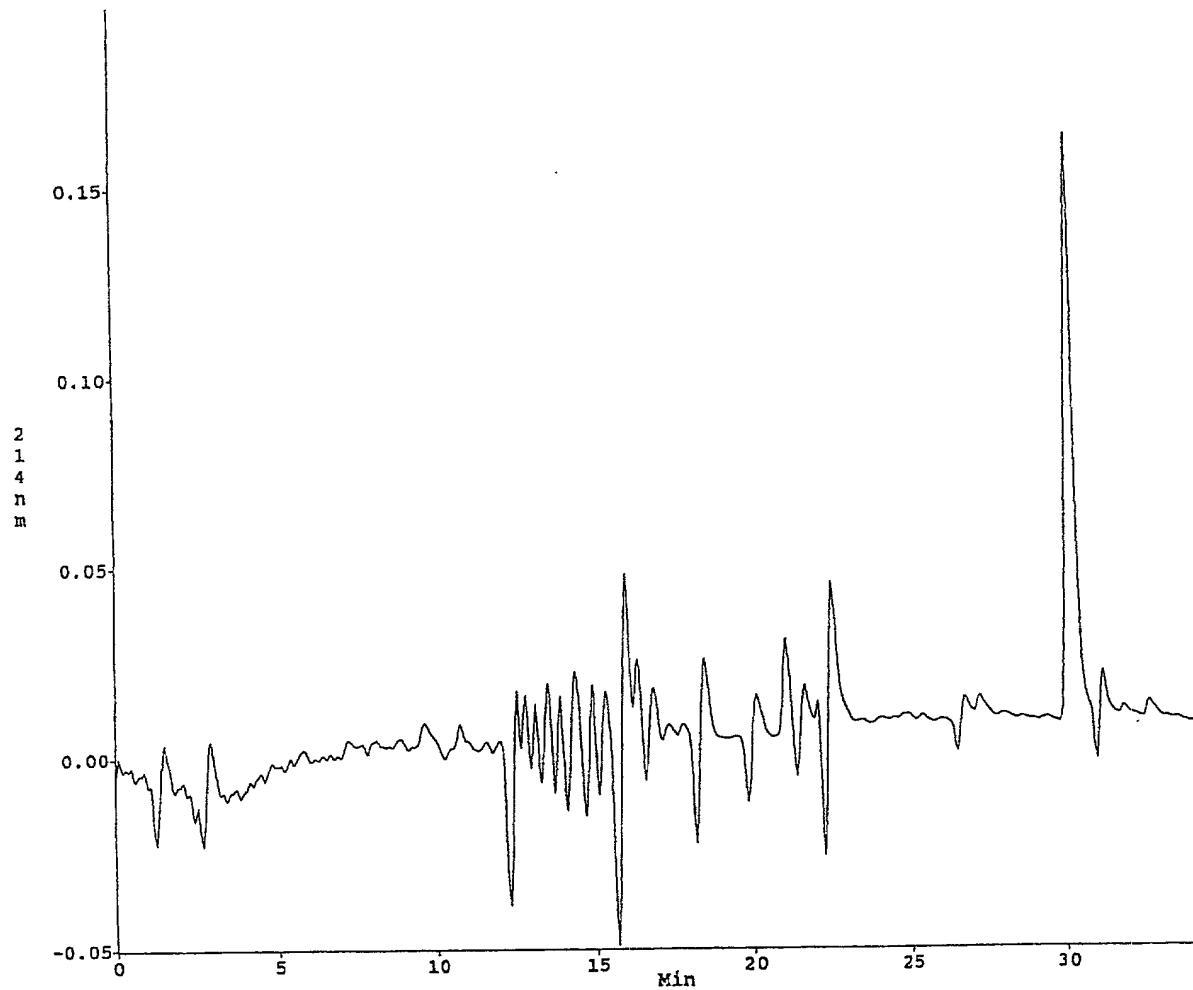


Fig. 3

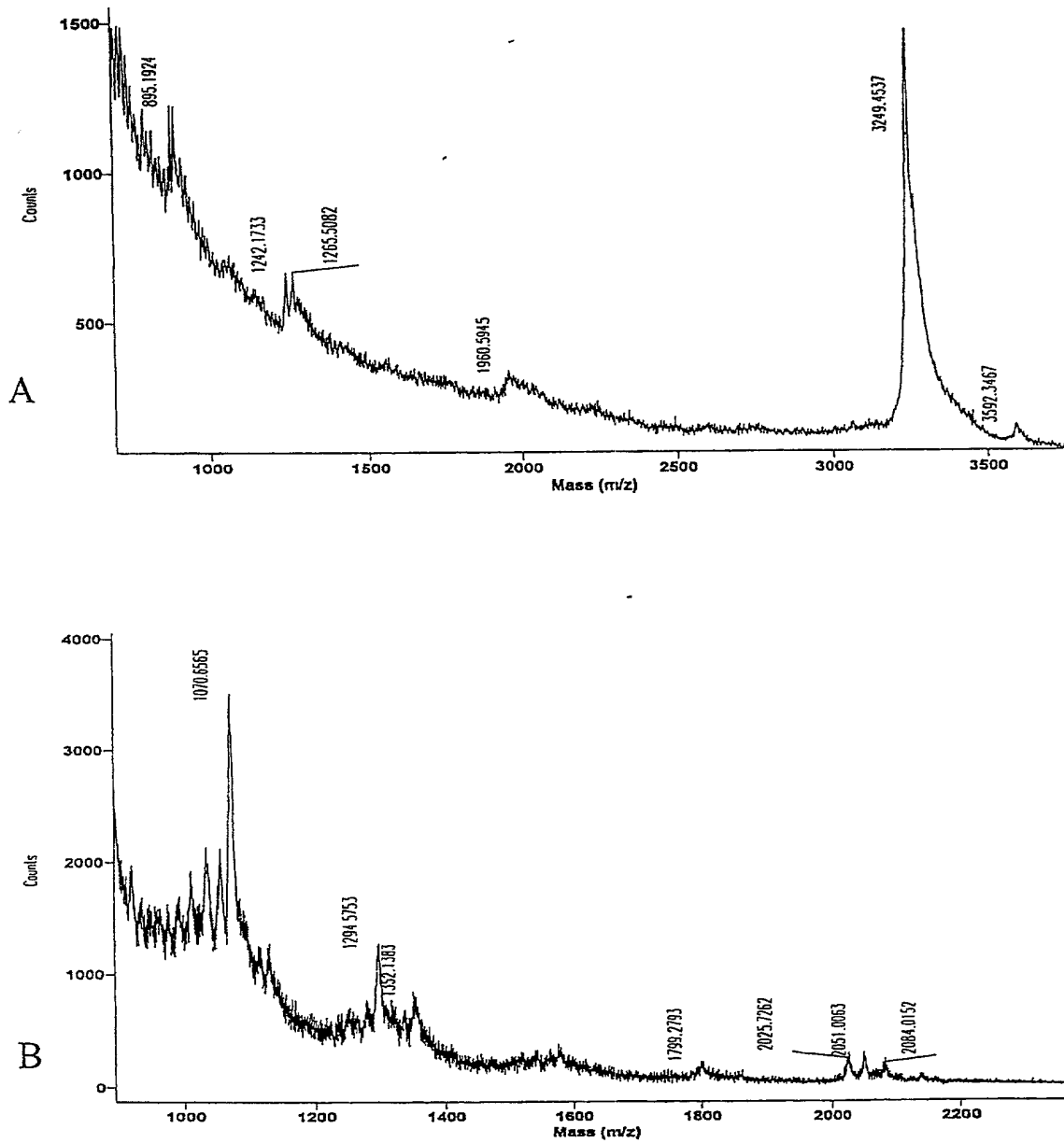


Fig. 4

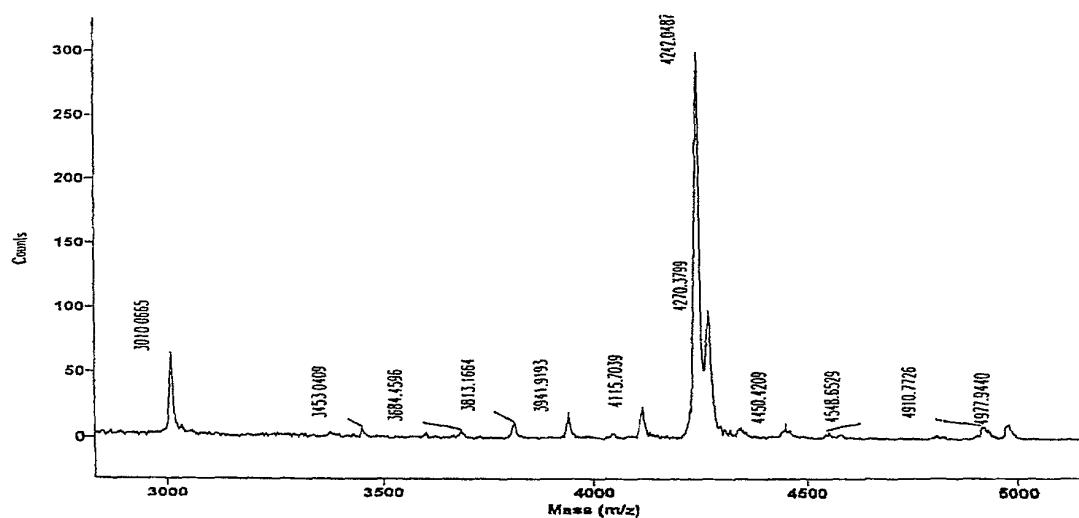
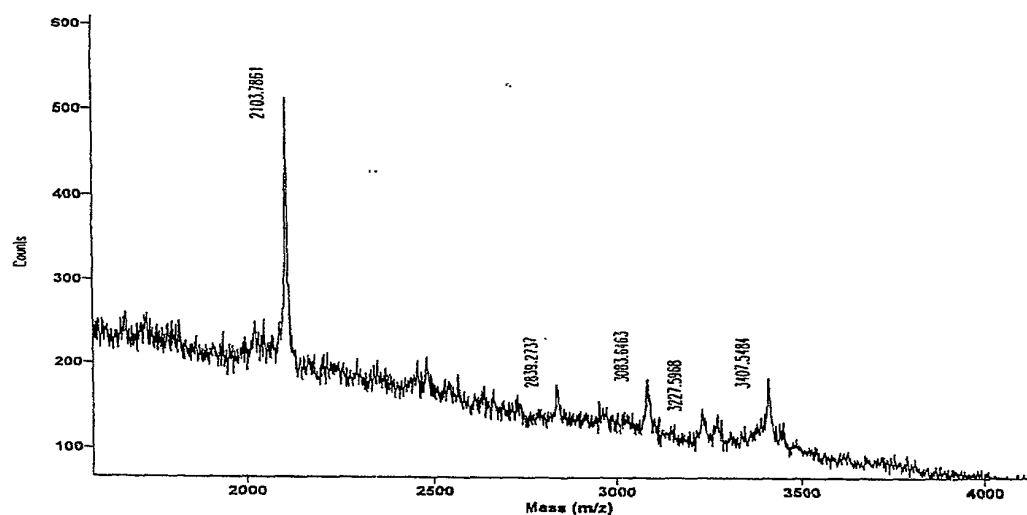


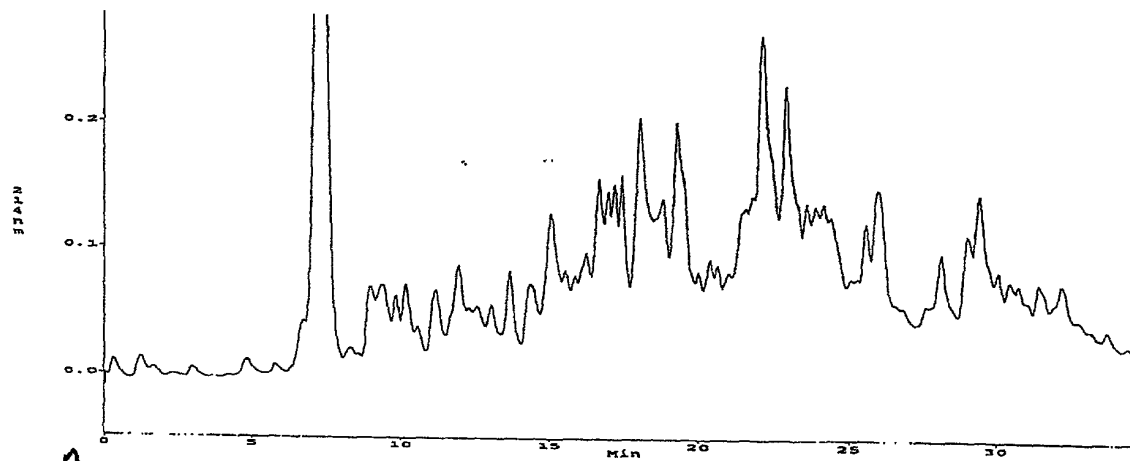
Fig. 4 (continued)

Title: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION

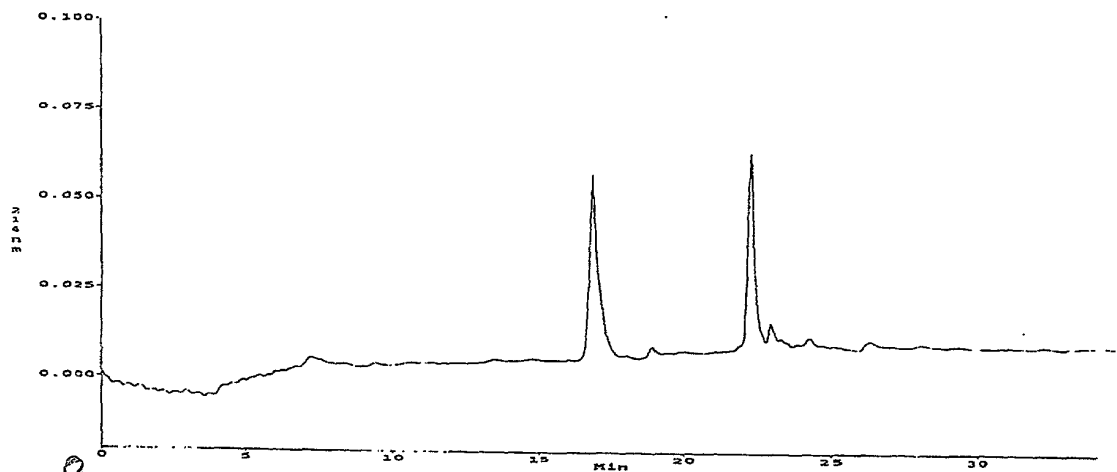
Applicant(s): Fred E. Regnier et al.  
Docket: 290.0001 0101

Serial No.: Unassigned  
Express Mail No.: EL 776904892 US

Filed: Herewith  
Sheet 6 of 12



A



B

Fig. 5

**Title: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION**

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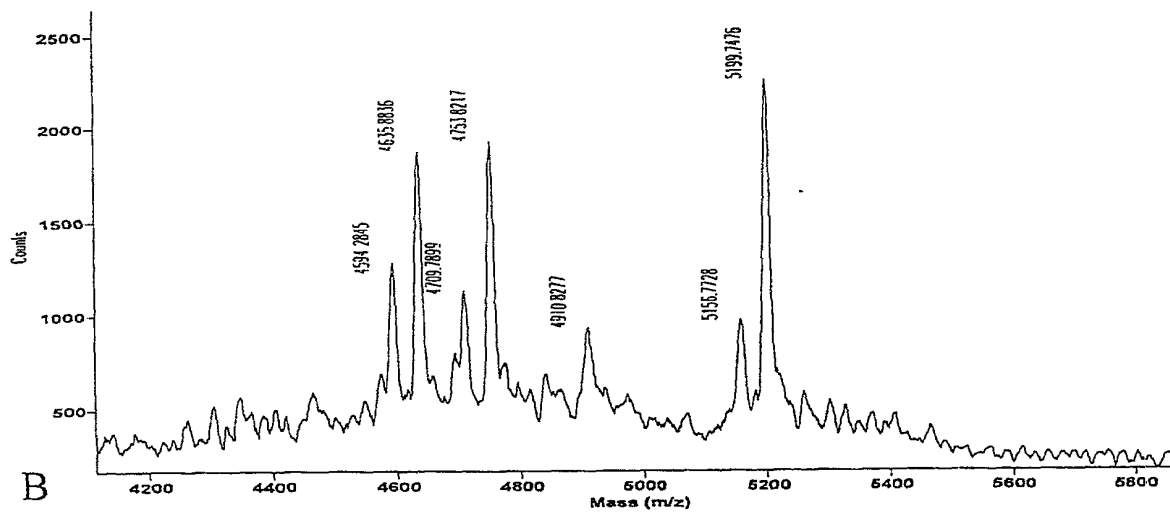
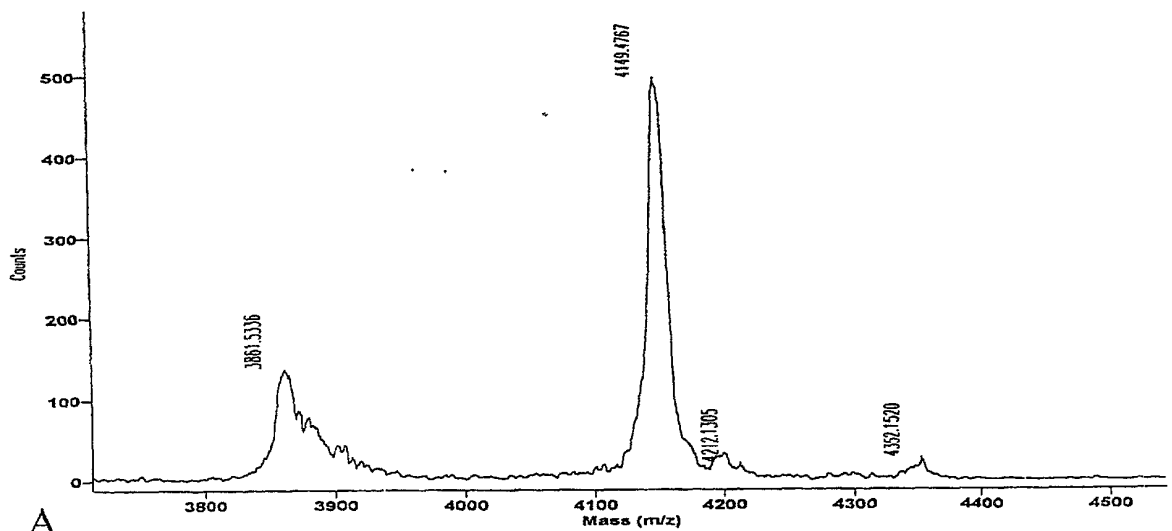
**Serial No.: Unassigned**

**Filed: Herewith**

**Docket: 290.0001 0101**

**Express Mail No.: EL 776904892 US**

**Sheet 7 of 12**



**Fig. 6**

**File: AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION**

**Applicant(s): Fred E. Regnier et al.**  
**Docket: 290.0001 0101**

**Serial No.: Unassigned**  
**Express Mail No.: EL 776904892 US**

**Filed: Herewith**  
**Sheet 8 of 12**

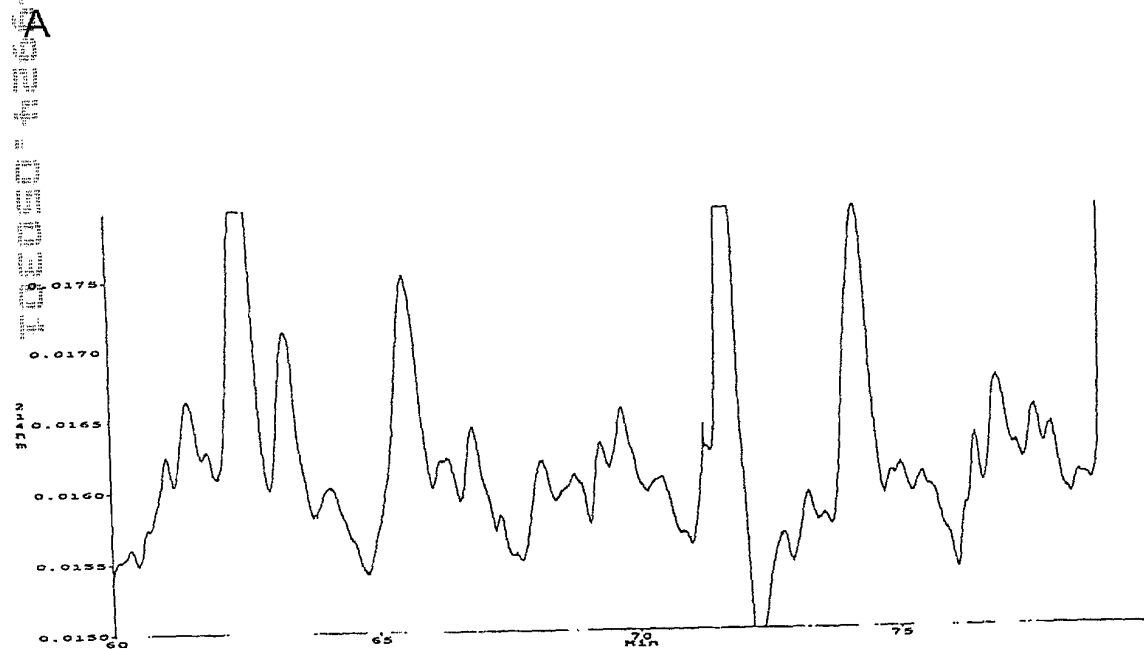
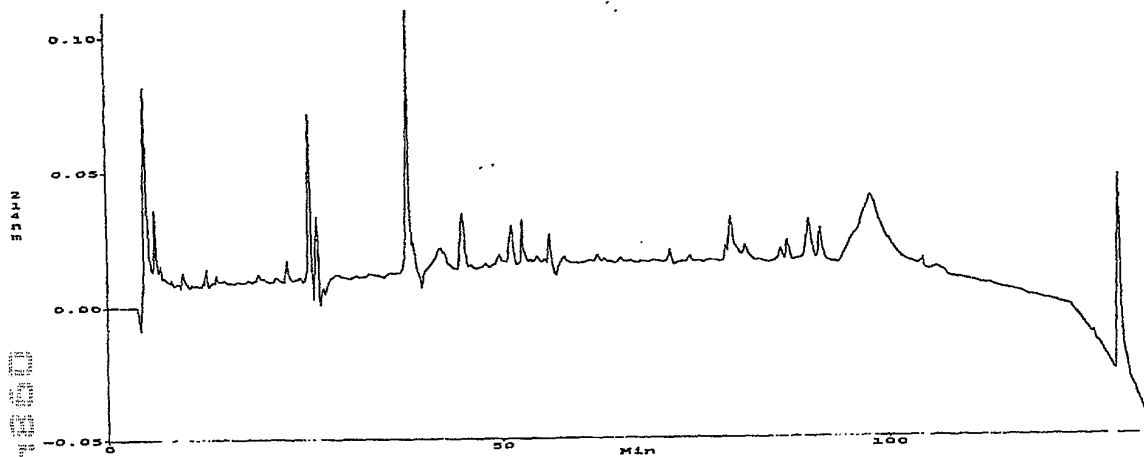


Fig. 7



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Applicant(s): Fred E. Regnier et al.

Serial No.: Unassigned

Filed: Herewith

Docket: 290.0001 0101

Express Mail No.: EL 776904892 US

Sheet 9 of 12

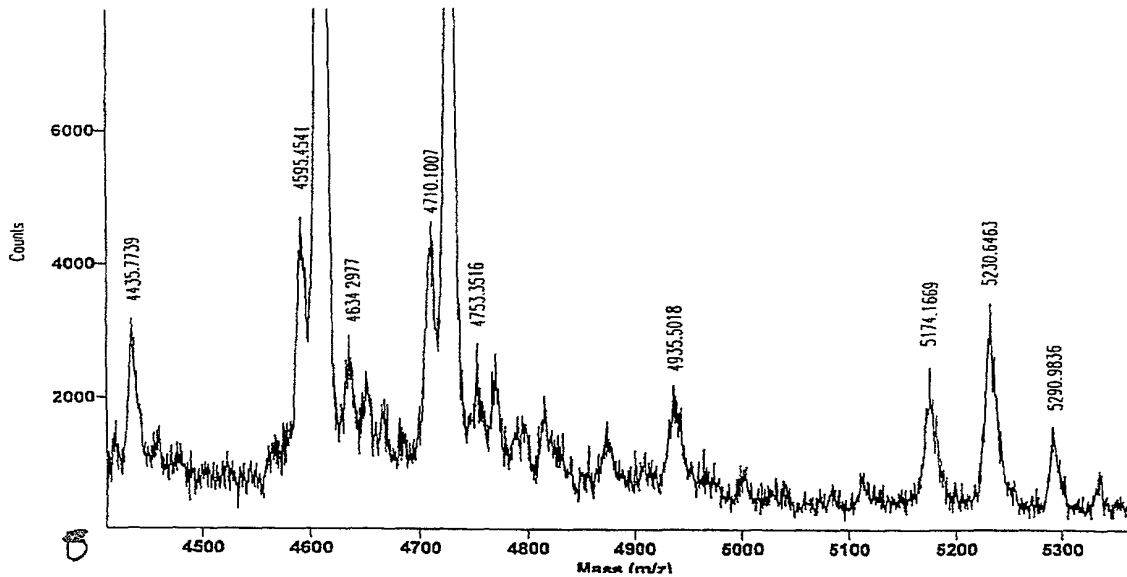
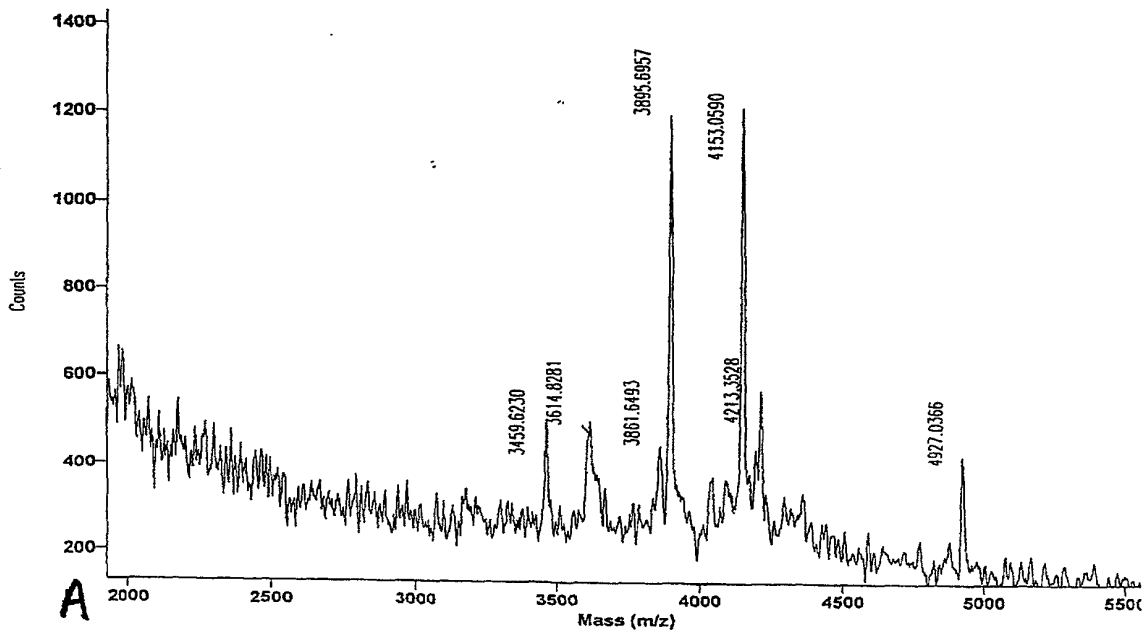


Fig. 8

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Applicant(s): Fred E. Regnier et al.

Serial No.: Unassigned

Filed: Herewith

Docket: 290.0001 0101

Express Mail No.: EL 776904892 US

Sheet 10 of 12

Lys-Asn-Asn-Gln-Lys-Ser-Glu-  
Pro-Leu-Ile-Gly-Arg-Lys-Lys-  
Thr-OH MW=1741

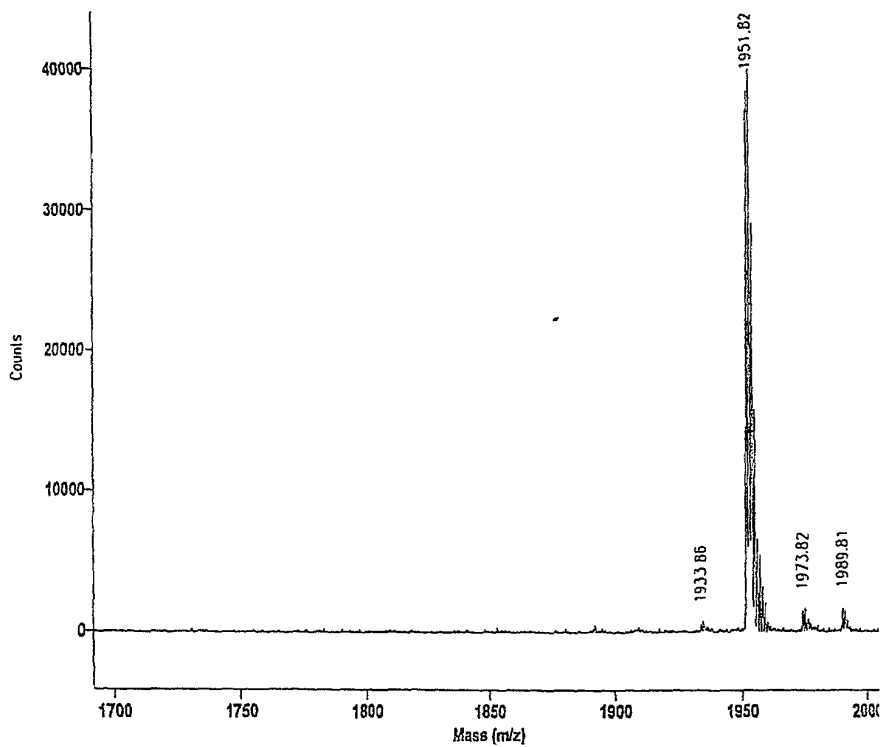
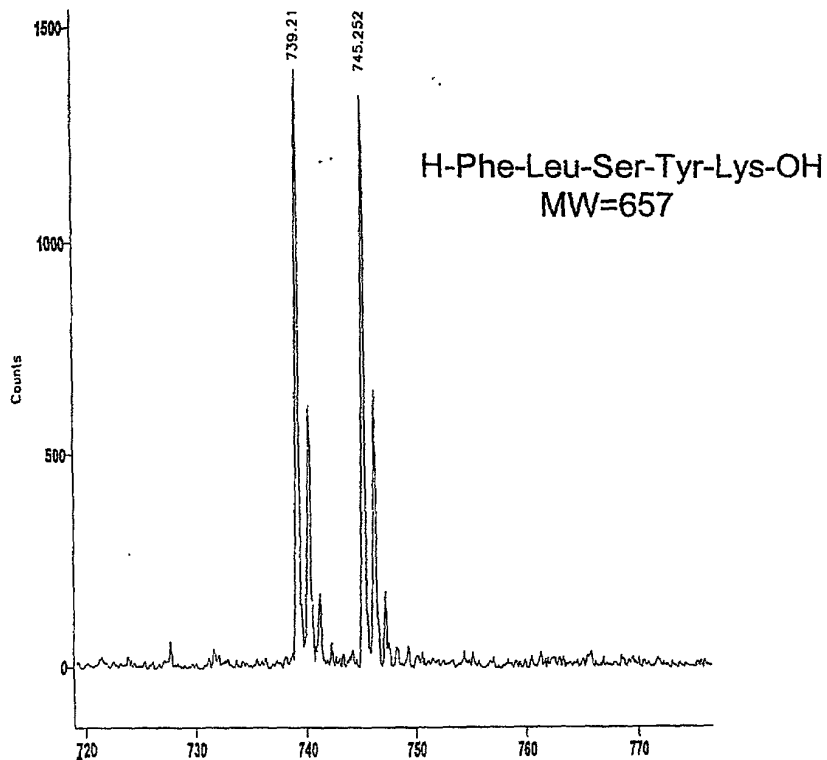
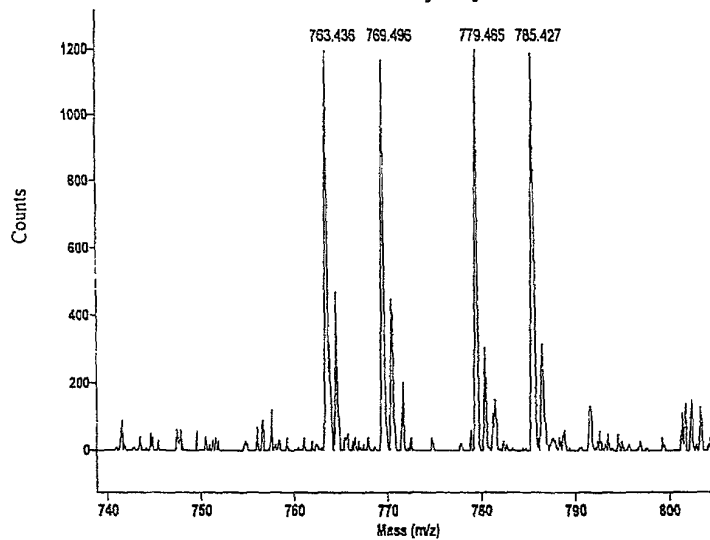


Fig. 9



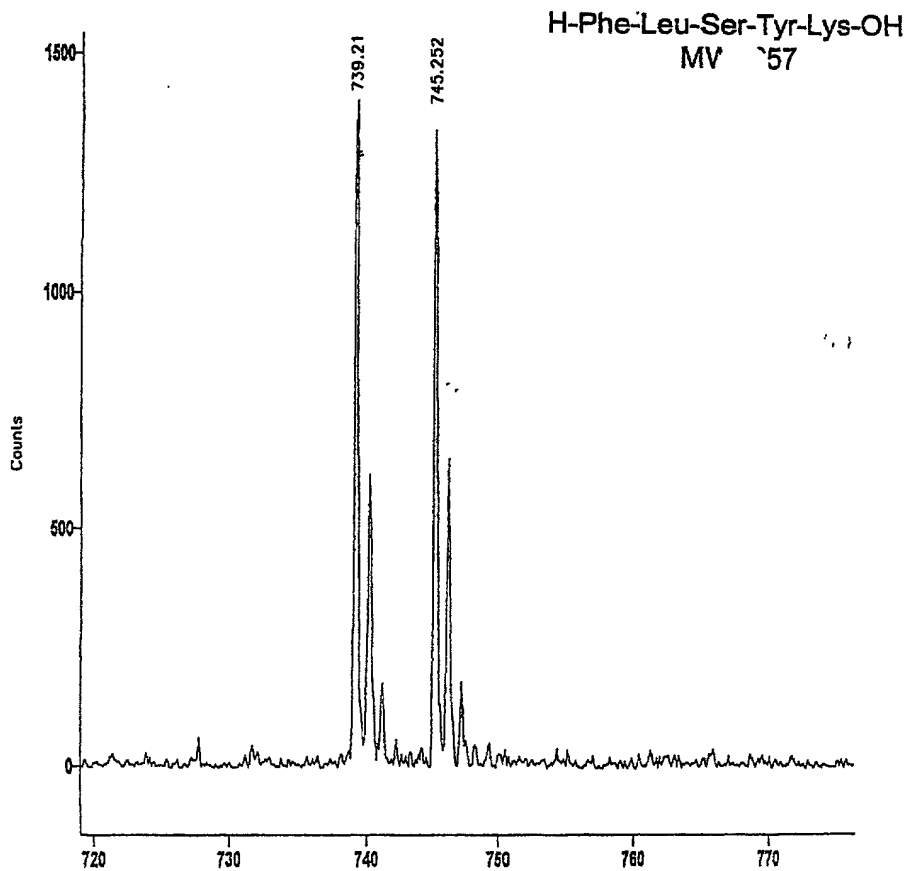
A

H-Phe-Leu-Ser-Tyr-Lys-OH MW=657



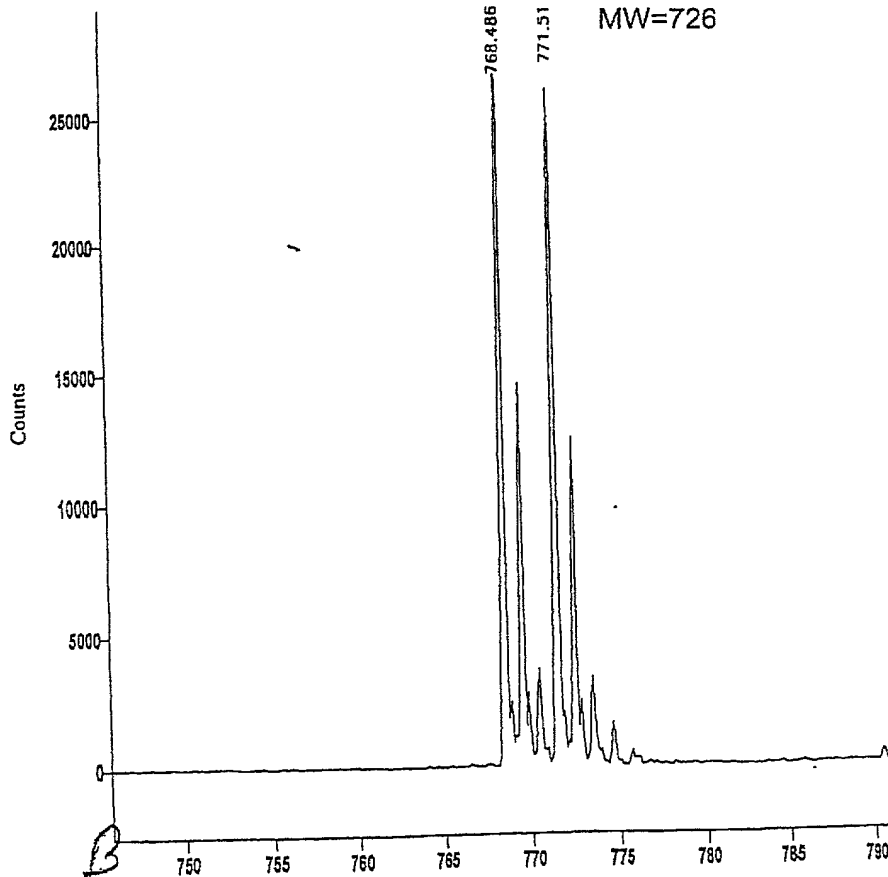
B

Fig. 10



A

NH<sub>2</sub>-Tyr-D-Ala-Gly-Phe-Leu-Arg-OH  
 MW=726



B

Fig 11